Applicant (or

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08a (08-03)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) et 1 of 4	Complete if Known			
			Application Number	10/705,757
NFORMATION DI	SCLO	SURE	Filing Date	November 12, 2003
STATEMENT BY	APPLI	CANT	First Named Inventor	Eberhard WEIHE
51711 <u> </u>		•••••	Art Unit	-1743- 1636
fuse as many sheets a	as necess	arv)	Examiner Name	Unassigned Tennifer Dunston
1	of	4	Attorney Docket Number	029310.52818US
	o for form 1449A/PTO NFORMATION DISTATEMENT BY	e for form 1449A/PTO INFORMATION DISCLO STATEMENT BY APPLI	o for form 1449A/PTO NFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number Filing Date STATEMENT BY APPLICANT (use as many sheets as necessary) Application Number Filing Date First Named Inventor Art Unit Examiner Name

			U.S. PATENT I	DOCUMENTS	
Examiner Initials'	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code ² (if known)			Figures Appear
ΩD_	AA	US- 5,262,311	11-16-1993	Arthur B. Pardee et al.	
0		US-			

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
9	AB	ARMEN N. AKOPIAN ET AL., "A Tetrodotoxin-Resistant Voltage-Gated Sodium Channel Expressed by Sensory Neurons", Letters to Nature, January 18, 1996, pp. 257-262, Vol. 379	
90	AC	JAMES A. BONINI ET AL., "Molecular Cloning and Tissue Expression of a Novel Orphan G Protein-Coupled Receptor from Rat Lung", Biochemical and Biophysical Research Communications, 1997, pp. 190-193, 234, Article no. RC976591, Academic Press	
90	AD	ANTHONY DICKENSON ET AL., "Novel Pharmacological Targets in the Treatment of Pain", Pain Reviews, 1995, pp. 1-12, 2, Edward Arnold	
90	AE	TATSUO FURUKAWA ET AL., "Identification of New Genes Expressed in a Human Erythroleukemia Cell Line", Blood Cells, Molecules and Diseases, 1996, pp. 11-22, 22, 2, The Blood Cells Foundation, LaJolla, California, USA	
90	AF	M. HUBANK ET AL., "Identifying Differences in mRNA Expression by Representational Difference Analysis of cDNA", Nucleic Acids Research, 1994, pp. 5640-5648, Vol. 22, No. 25	
90	AG	PENG LIANG ET AL., "Differential Display of Eukaryotic Messenger RNA by Means of the Polymerase Chain Reaction", Science, August 14, 1992, pp. 967-971, Vol. 257	

Examiner Signature	Jennid Dunt	Date 15/21/2005

*EXAMINER: Initial if leference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<u> </u>				Complete if Known			
Substitute	te for form 1449B/PTO			Application Number	n Number 10/705,757 e November 12, 2003 ed Inventor Eberhard WEIHE 4743-1636 Name Unassigned Sension Dunston		
	INFORMATION DISCLOSURE			Filing Date	November 12, 2003		
	STATEMENT BY A			First Named Inventor	Eberhard WEIHE		
l	STATEMENT DIA	\	7171	Art Unit	1743 1636		
	(use as many sheets as	s necessar	γ)	Examiner Name	Unassigned Tennifer Dunston		
Sheet	2	of	4	Attorney Docket Number	029310.52818US		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
9D	АН	G.MC. POIRIER ET AL., "Screening Differentially Expressed cDNA Clones Obtained by Differential Display Using Amplified RNA", Nucleic Acids Research, 1997, pp. 913-914, Vol. 25, No. 4, Oxford University Press	
	Al	THOMAS R. TÖLLE, "Chronischer Schmerz", 1997 Not Considered	
90	AJ	JACKSON S. WAN ET AL., "Cloning Differentially Expressed mRNAs", Nature Biotechnology, December 1996, pp. 1685-1691, Volume 14	
9D	AK	CLIFFORD J. WOOLF ET AL., "Peripheral Nerve Injury Triggers Central Sprouting of Myelinated Afferents", Letters to Nature, January 2, 1992, pp. 75-78, Vol. 355	
90	AL	HIROSHI BABA ET AL., "Peripheral Inflammation Facilitates Aβ Fiber-Mediated Synaptic Input to the Substantia Gelatinosa of the Adult Rat Spinal Cord", The Journal of Neuroscience, January 15, 1999, pp. 859-867, 19, 2, Society for Neuroscience	
90	АМ	CHIH-CHENG CHEN ET AL., "A P2X Purinoceptor Expressed by a Subset of Sensory Neurons", Letters to Nature, October 5, 1995, pp. 428-431, Vol. 377	
90	AN	DAVID DUBUISSON ET AL., "The Formalin Test: A Quantitative Study of the Analgesic Effects of Morphine, Meperidine, and Brain Stem Stimulation in Rats and Cats", Pain, 1977, pp. 161-174, 4, Elsevier/North-Holland Biomedical Press	
90	AO	P.G. GUNASEKAR ET AL., "NMDA Receptor Activation Produces Concurrent Generation of Nitric Oxide and Reactive Oxygen Species: Implication for Cell Death", Journal of Neurochemistry, 1995, p. 2016-2021, Vol. 65, No. 5, Lippincott-Raven Publishers, Philadelphia, USA	
90	AP	SVEN KLUβMANN ET AL., "Mirror-Image RNA that Binds D-Adenosine", Nature Biotechnology, September 1996, pp. 1112-1115, Vol. 14	

			والمرابع والم والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمراب	
Examiner Signature	0 1	\	Date Considered	10/210/2005
Signature	mm	I WWW.		كالمنافعة المنافعة ا

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

				Complete if Known		
Substitute	for form 1449B/PTO			Application Number	10/705,757	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	November 12, 2003	
				First Named Inventor	Eberhard WEIHE	
	STATEMENT DI	AFFEIOAI	• •	Art Unit	-1743 1W3b	
	(use as many sheets	as necessary)		Examiner Name	Unassigned Tennifer Durston	
Sheet	3	of	4	Attorney Docket Number	029310.52818US	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
90	AQ	AXEL METHNER ET AL., "A Novel G Protein-Coupled Receptor with Homology to Neuropeptide and Chemoattractant Receptors Expressed during Bone Development", 1997, pp. 336-342, 233, Article no. RC976455, Academic Press	
90	AR	LAUREN SOMPAYRAC ET AL., "Overcoming Limitations of the mRNA Differential Display Technique", Nucleic Acids Research, 1995, pp. 4738-4739, Vol. 23, No. 22, Oxford University Press	
9D	AS	JOSEPH B. WATSON ET AL., "Differential cDNA Screening Strategies to Identify Novel Stage-Specific Proteins in the Developing Mammalian Brain", Dev. Neurosci., 1993, pp. 77-86, 15	
9D	AT	M. ZIMMERMANN ET AL., "Plasticity of the Nervous System at the Systemic, Cellular and Molecular Levels: a Mechanism of Chronic Pain and Hyperalgesia", Progress in Brain Research, 1996, pp. 233-259, Vol. 110, Elsevier Science B.V.	
QD	AU	DAVID BAUER ET AL., "Identification of Differentially Expressed mRNA Species by an Improved Display Techniques (DDRT-PCR)", Nucleic Acids Research, 1993, pp. 4272-4280, Vol. 21, No. 18, Oxford University Press	
gD.	AV	TERENCE J. CODERRE ET AL., "Contribution of Central Neuroplasticity to Pathological Pain: Review of Clinical and Experimental Evidence", Pain, 1993, pp. 259-285, 52, Elsevier Science Publishers B.V.	
9D	AW	YUN FENG ET AL., "Cloning of a Novel Member of the G Protein-Coupled Receptor Family Related to Peptide Receptors", Biochemical and Biophysical Research Communications, 1997, pp. 651-654, 231, Article No. RC976161, Academic Press	

Examiner		λ	Date Considered	10/210/2005
Signature	(lange 1-		Considered	10/210/2005
,	W/10/10/10	والمراجع المراجع المرا		

*EXAMINER: Indial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

				Complete if Known			
Substitute	e for form 1449B/PTO			Application Number	10/705,757		
	INFORMATION D	ופרו חפו	IRF	Filing Date	November 12, 2003		
	STATEMENT BY			First Named Inventor	Eberhard WEIHE		
	STATEMENT DI	Al I LIO	****	Art Unit	1743 1036		
	(use as many sheets	as necessai	γ)	Examiner Name	Unassigned Jennifer Durken		
Sheet	4	of	4	Attorney Docket Number	029310.52818US		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T².
9D	AX	BRIAN E. HAWES ET AL., "Nociceptin (ORL-1) and μ-Opioid Receptors Mediate Mitrogen-Activated Protein Kinase in CHO Cells Through a G _i -Coupled Signaling Pathway: Evidence for Distinct Mechanisms of Agonist-Mediated Desensitization", Journal of Neurochemistry, 1998, pp. 1024-1033, Vol. 71, No. 3, International Society of Neurochemistry	
9D	AY	LING-YUAN LI ET AL., "The Stimulatory Effect of Opioids on Mitrogen-Activated Protein Kinase in Chinese Hamster Ovary Cells Transfected to Express µ-Opioid Receptors", Molecular Pharmacology, 1996, pp. 599-602, 50, The American Society for Pharmacology and Experiential Therapeutics	
90	AZ	ABDI A. MOHIT ET AL., "p49 ^{3F12} Kinase: A Novel MAP Kinase Expressed in a Subset of Neurons in the Human Nervous System", Neuron, January 1995, pp. 67-78, Vol. 14, Cell Press	
90	BA	VICTOR E. VELCULESCU ET AL., "Serial Analysis of Gene Expression", Science, October 20, 1995, pp. 484-487, Vol. 270	
90	ВВ	ANDREW F. WILKS, "Two Putative Protein-Tyrosine Kinases Identified by Application of the Polymerase Chain Reaction", Genetics, March 1989, pp. 1603-1607, Vol. 86, Proc. Natl. Acad. Sci., USA	

Examiner Signature	Jenny Dunsh	Date Considered	10/26/2005

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.